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# Minerva Operations Report

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AEM Dec. 2, 2013



# General



- Taking data, with very little downtime
- Having an issue with a PMT HV (readings vary greatly)
  - First trying to swap out FEB (today at 2:30 pm)
- Plans for midweek shutdown
  - Finish west side platform
  - Swap out troubled PMT
  - Swap out two raid5 disks on mnvonline1

← requires a light leak  
← check of the detector



# West Platform Installation



- Still to do
  - 2 of the 3 flooring pieces are tied down. A short piece which the person steps on from the ladder is tied down with a hose clamp. It needs to be tied down firmly
  - Install 3d railing on the east side of platform to protect the optical cables & give the person working on the detector something to hold onto besides the detector. 2 of the 3 railings are installed
- We need to turn off HV to protect PMTs and hence this must take place during a beam down time
  - After installation we need to light leak check the detector
- Estimated to take about one shift
- Hope/Plan to do this Wednesday

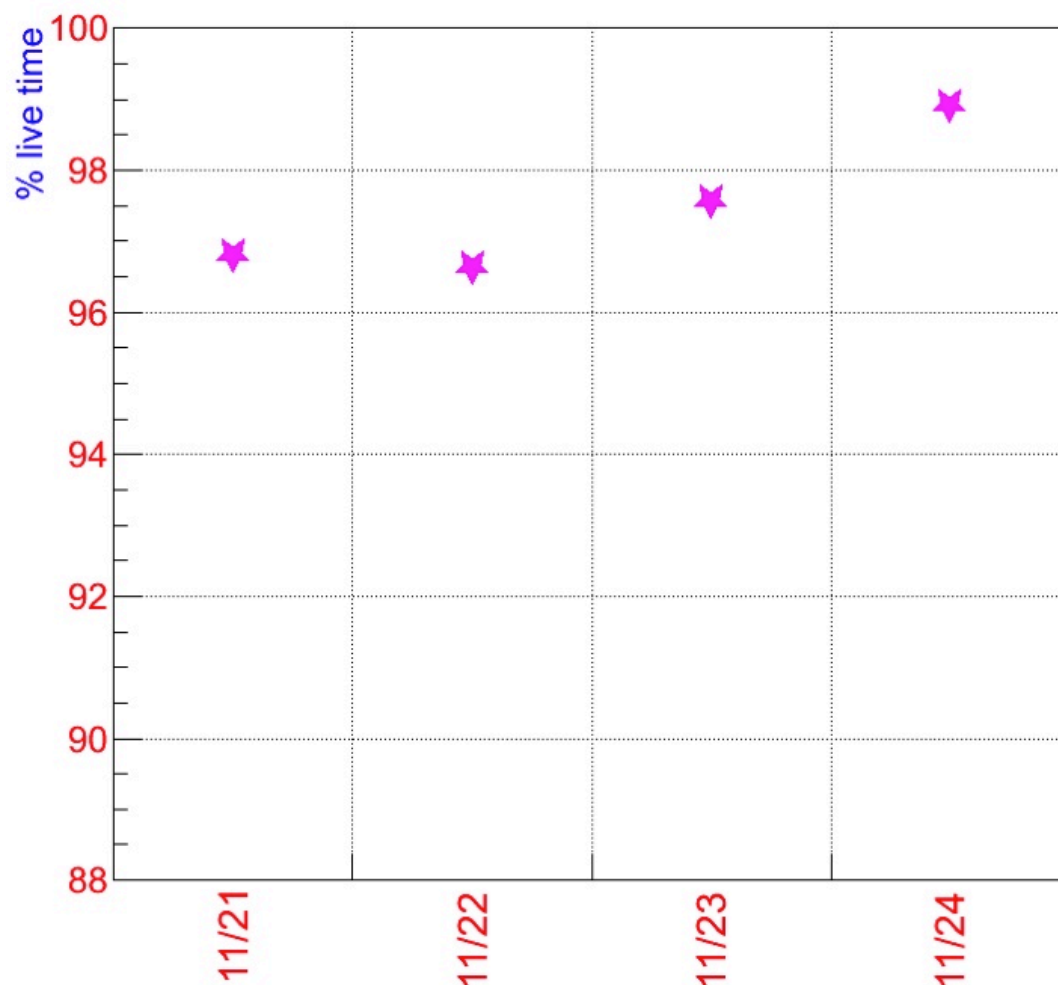


# Nov. 21 - Nov. 24 Live Times



recorded =  $0.365 \times 10^{19}$  POT  $\rightarrow$  live time = 97.5%

- Nov 25 - Nov 27 were low intensity runs
  - we were taking data continuously, but the calculated efficiencies for these days are questionable
- $0.375 \times 10^{19}$  POT delivered between 11/21 - 11/24
- $6.21 \times 10^{19}$  POT delivered between 9/6 - 11/24

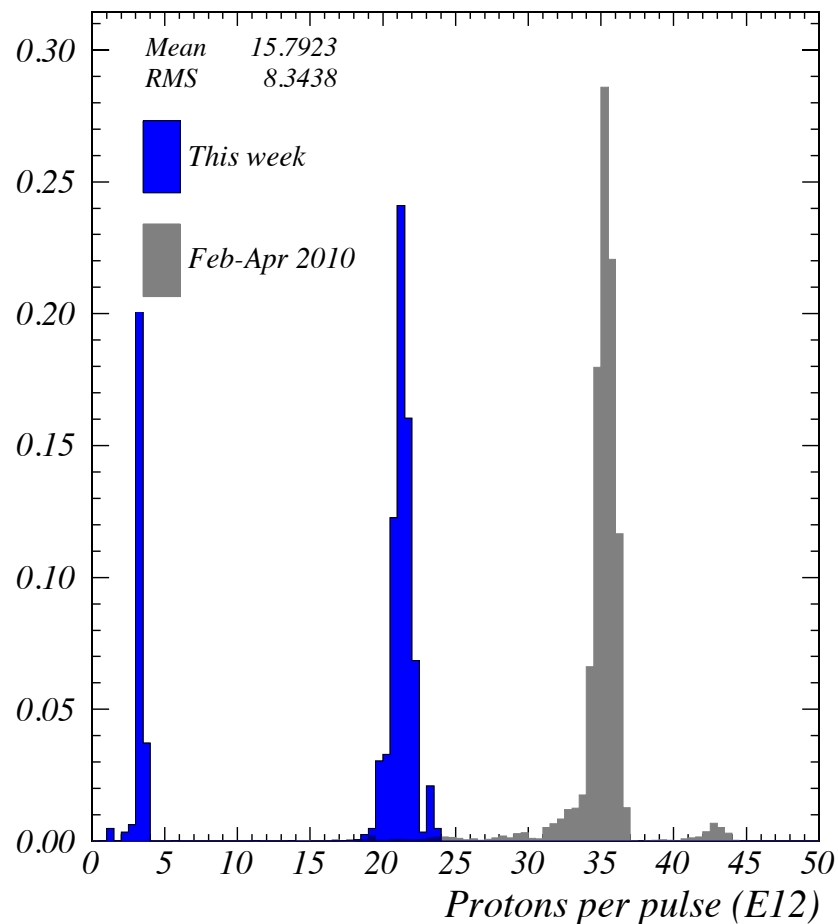




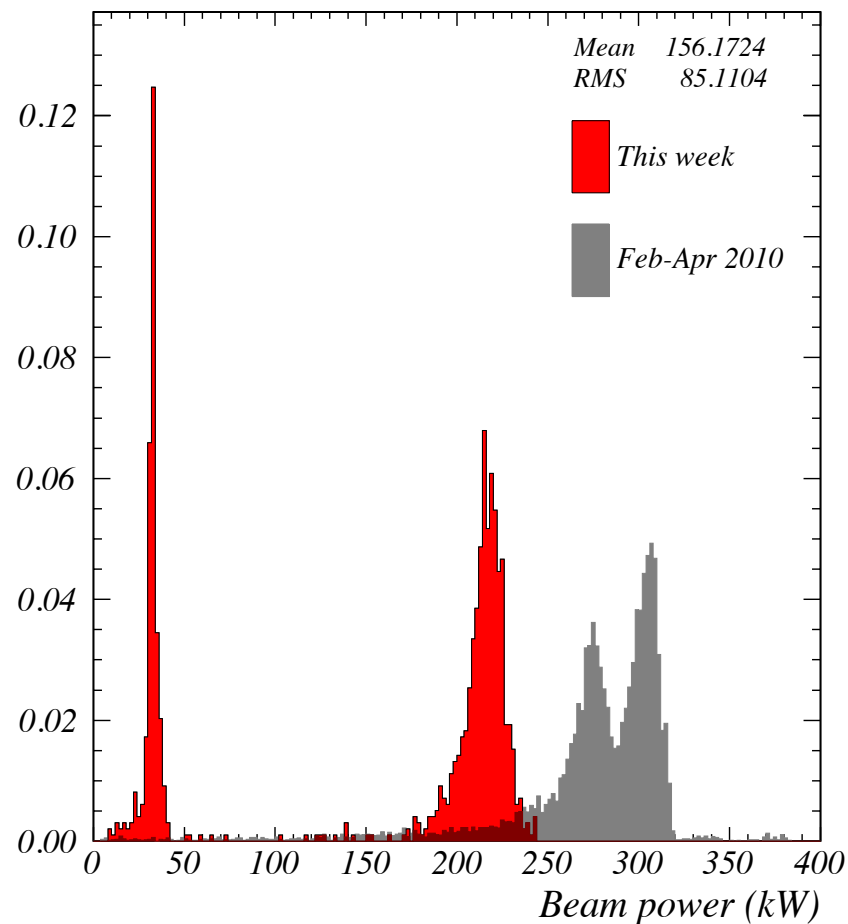
# NuMI Beam Plots



Week ending 00:00 Monday 02 December 2013

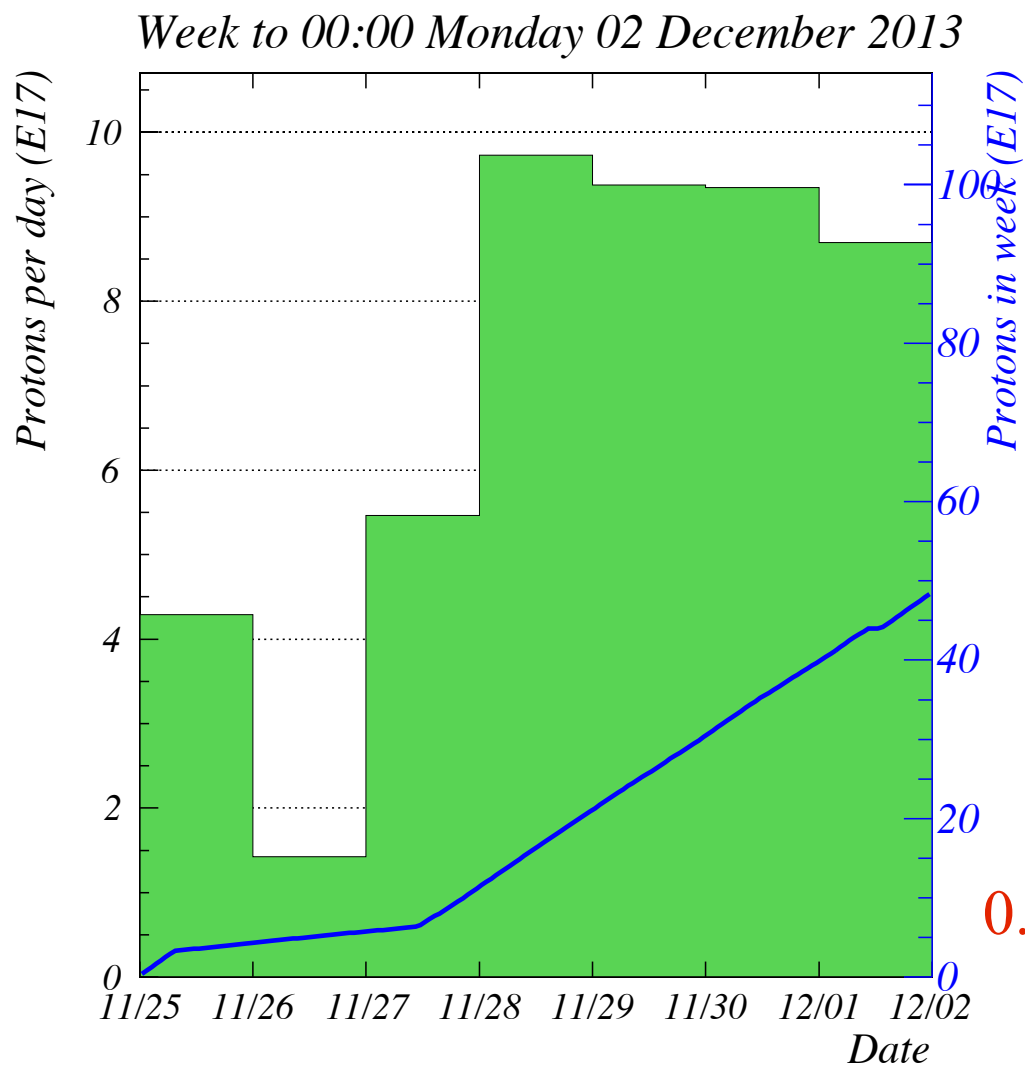


Week ending 00:00 Monday 02 December 2013





# Protons for the Week



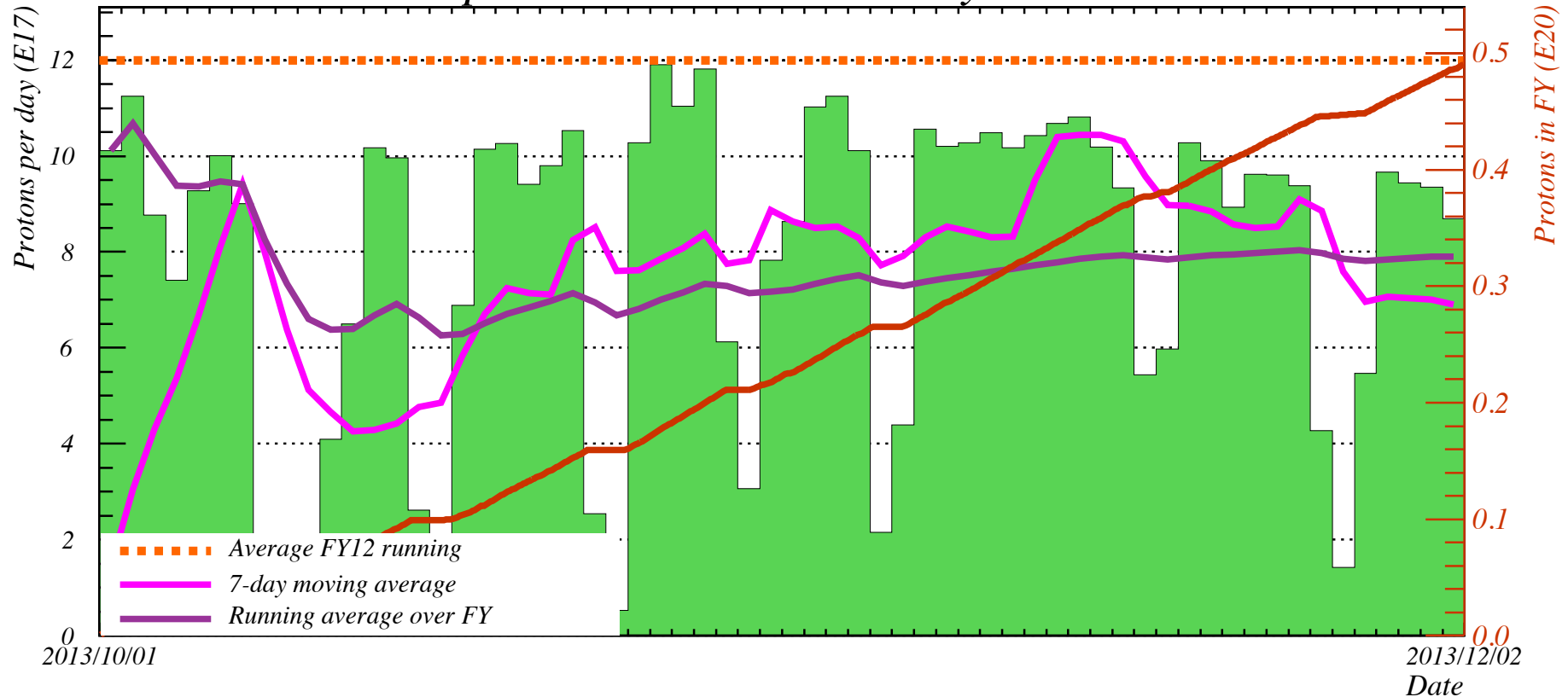
$0.483 \times 10^{19}$  POT



# FY2014 Protons



*FY14 NuMI protons to 00:00 Monday 02 December 2013*



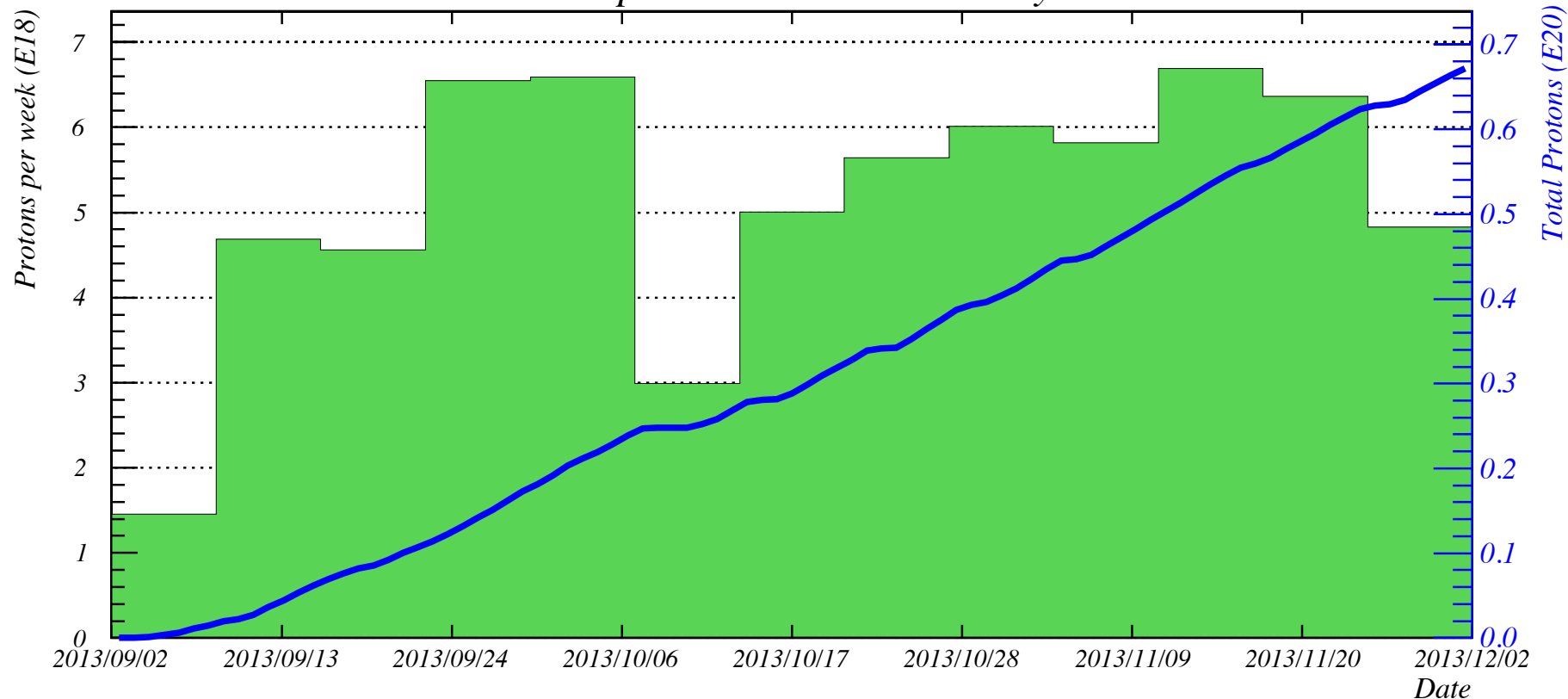
$4.90 \times 10^{19}$  POT



# Protons for ME Run



*Total MINOS+/NOvA protons to 00:00 Monday 02 December 2013*



$6.68 \times 10^{19}$  POT (Start Sep 6 2013 at 15:00)